

CLAIMS

1. An air conditioner (1) provided in the ceiling of an air conditioned room, comprising:
a casing (2) comprising: a casing lower part (3, 7) formed by an alternating sequence
of four side parts (30a – 30d) and four corner parts (30e – 30h); main outlets (32a –
5 32d) disposed so that they run along each of said side parts; an inlet (31) disposed so
that it is surrounded by all said side parts; and auxiliary outlets (32e – 32h) disposed
at at least one of said four corner parts; and
horizontal flaps (35a – 35d) oscillatably provided about the axes of said main outlets
in the longitudinal direction, and capable of varying the wind direction of an air
10 current (X) blown out from each of said main outlets;
wherein,
a circumferential edge part of each of said auxiliary outlets is formed so that air is
blown out from each of said auxiliary outlets in a fixed direction.
2. An air conditioner (1) as recited in Claim 1, wherein
15 the opening area of each of said auxiliary outlets (32e – 32h) is less than that of each
of said main outlets (32a – 32d).
3. An air conditioner (1) as recited in Claim 1 or Claim 2, wherein
the vertical blow-out direction of the air (Y) blown out from each of said auxiliary
outlets (32e – 32h) is the direction of substantially the middle of the range by which
20 each of said horizontal flaps (35a – 35d) vertically regulate the wind direction of the
air current (X) blown out from each of said main outlets (32a – 32d).
4. An air conditioner (1) as recited in any one claim of Claim 1 through Claim 3, wherein
link mechanisms (37) for mutually and synchronously oscillating two adjoining
horizontal flaps (35a – 35d) are provided at the corner parts among said four corner
25 parts (30e – 30h) provided with said auxiliary outlets (32e – 32h); and
each of said link mechanisms is disposed on said inlet (31) side of each of said
auxiliary outlets.
5. An air conditioner (1) as recited in Claim 4, wherein
each of said two horizontal flaps (35a – 35d) has linking pins (36) provided at a
30 position on the inner side in the longitudinal direction of the end part in the
longitudinal direction of said horizontal flaps, axially supported by said casing lower
part (3, 7), and linked to said link mechanisms (37).